

Work Order ID 160154

160154

Page 1

Friday, April 21, 2017 11:55:35 AM

Item ID: D4864-1 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: RHeostat
Start Date: 4/24/2017 Start Qty: 10.00 *10* Cust Item ID:
Required Date: 5/8/2017 Req'd Qty: 10.00 *10* Customer:
Reference: SCHEDULED

Approvals: Process Plan: DAS 21 Date: APR 21 2017 Poling: _____ Date: _____ Run Start *NR1*
QC: 9-89 Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4864	A

100	PURCHASING	0.00							DAS 13 9-29
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100

Purchasing

Purchasing

Memo

Issue P/O: 36042

Order from Newark Electronics
Part Number RHS50RE

CERTIFICATION OF CONFORMITY IS REQUIRED

110	Receive & Inspect for Damage & Mat'l Certs	0.00							
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110

Packaging

Packaging

Memo

Ensure material release note is attached

10x SP74-27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 160154

Friday, April 21, 2017 11:55:35 AM

160154

Page 2

Item ID: D4864-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: RHeostat

Start Date: 4/24/2017 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/8/2017 Req'd Qty: 10.00

10

Customer:

Reference: SCHEDULED

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamps
120	QC6- Inspect dimensions to drawing	0.00							07 9-89
120						10			17/07/06
QC	Memo	0.00							
Quality Control	Trim wire winding adjacent to OFF position so that rheostat has complete off position. see Drawing								
130	Identify as per dwg & Stock Location: ST142	0.00							
130						10			DAS 28 9-89
Packaging	Memo	0.10							JUL 07 2017
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									17/7/10
QC	Memo	1.00							
Quality Control									



JUL 10 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Friday, April 21, 2017 11:55:37 AM

Page 1

Work Order ID: 160154

160154

Parent Item: D4864-1

D4864-1

Parent Item Name: RHeostat

Start Date: 4/24/2017

Required Date: 5/8/2017

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev A New Issue 13/09/30 DL VERF:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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RHS50RE

Purchased

No

100

Each

0.0000

1

10

RHS50RF

RHeostat

10X SP174-27

DQA: _____ Date: _____



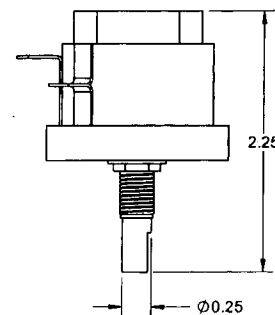
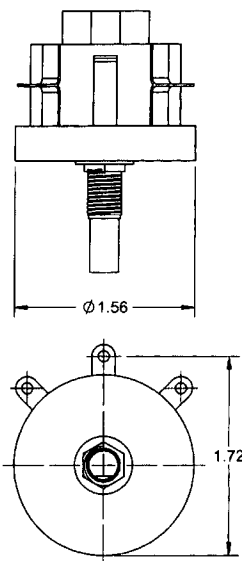
WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
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Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
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Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 160154M05

170421

D4864-X RHEOSTAT

DART PART NUMBER	DESCRIPTION	VOLTAGE	CURRENT	VENDOR	VENDOR PART NUMBER	WEIGHT (LBS)	REPLACES GENEVA P/N
D4864-1	RHEOSTAT	500 RMS	25 WATTS	OHMITE	H-50-F2-352AE	0.18	G10011
D4864-3	RHEOSTAT	500 RMS	25 WATTS	OHMITE	H-100-F2-352AE	0.18	G12889

RELEASED
2013-09-16

- NOTES:
1) MATERIAL: PER TABLE
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
7) WEIGHT: PER TABLE

REV.	NEW ISSUE	DESCRIPTION	BY	DATE
DESIGN				
DRAWN				
CHECKED				
MFG. APPR.				
APPROVED				
DE APPR.				
DATE	13.06.21			

DART AEROSPACE USA, INC.
KENT, WA

DRAWING NO. **D4864** REV. A
SHEET 1 OF 1

TITLE **RHEOSTAT** SCALE NTS

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
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OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36042

Purchase Order Date 4/24/2017

PO Print Date 4/24/2017

Page Number 2 of 3

Order From :
NEWARK
C/O T27537 P.O.BOX 4275
POSTAL STATION "A"
TORONTO, ONTARIO M5W 5V8
CANADA

VC-NEW002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800-463-9275 Ext.Sales

Ship To Contact
Ship To Phone
Ship Via: UPS Standard
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Total: \$3.49

4	206458-1	FEED-THRU- RECEPTACLE (J2/J3)	4/27/2017	5.00	\$65.16	\$325.80
			Yes 4/27/2017	Each		

Line Total: \$325.80

5	T23A125BSR2-15	thermal switch	4/27/2017	4.00	\$2.93	\$11.72
			Yes 4/27/2017	Each		

AS PER DWG D4022 REV. C
B160157

Line Total: \$11.72

6	RHS50RE	RHeostat	4/27/2017	10.00	\$64.56	\$645.60
			Yes 4/27/2017	Each		

AS PER DWG D4864 REV. A
B160154

DAS
38
9-89

SP17-4-27

Note:

4/24/2017



element4

Packing List

217 Wilcox Drive
Gaffney SC 29341
Orders: 1-800-463-9275
Cust Service: 1-866-752-9279
www.newark.com

Customer PO: PO36042



Rel:

No. of Cartons: 1
Number of Lines: 5
Ship Date: 4/24/2017
Bill-To Acct: V1 659740001
Ship-To Acct:

Ship To:
CHANTAL
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7 Canada

Sold To:
CHANTAL LAVOIE
6136325200
clavoie@dartaero.com

Bill To:
DART AEROSPACE LTD
CHANTAL LAVOIE
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7 CA

Ord Line	Cust Po Line	SKU	UOM	Order Qty	Shipped Qty	Previous Shipped	Back Ord. Qty	COO	HTC	ECCN
2	002	38C8743	EA/1	10	10	0	0	US	8536698000	EAR99
HOUSING, PLUG, 4POS, 1ROW, 5.03MM; Product Range:Standard .093" Series; Gender:Plug; No. of Positions:4Positions; Pitch Spacing:5.03mm; For Use With:1189, 1190, 1434, 1973 Crimp Terminals; Body Material:PA Polyamide (Nylon) 6/6							Mfr part#: 03-09-2041 Mfr Name: MOLEX			
<u>Pick ID:</u>	<u>Pick Qty:</u>	<u>Date Code:</u>	<u>Lot Code:</u>							
64579806	10									
3	003	13T6151	EA/1	10	10	0	0	US	8538906000	EAR99
RCPT CONNECTOR HOUSING, NYLON 6.6; Product Range:Standard .093" Series; Gender:Receptacle; No. of Positions:4Positions; Pitch Spacing:5.03mm; For Use With:1189, 1190, 1434, 1973 Crimp Terminals							Mfr part#: 03-09-1041 Mfr Name: MOLEX			
										
							Customers part#: 143-208			
<u>Pick ID:</u>	<u>Pick Qty:</u>	<u>Date Code:</u>	<u>Lot Code:</u>							
64579774	10	1451	000841480990							
4	004	50B525	EA/1	5	5	0	0	MX	8536694030	EAR99
CIRCULAR CONNECTOR RECEPTACLE, SIZE 11, 8 POSITION, PANEL; Product Range:CPC Series 2; No. of Contacts:8Contacts; Connector Body Material:Thermoplastic Body; Body Material:Thermoplastic; Connecting Termination:Feed-Thru							Mfr part#: 206458-1 Mfr Name: TE CONNECTIVITY / AMP			
<u>Pick ID:</u>	<u>Pick Qty:</u>	<u>Date Code:</u>	<u>Lot Code:</u>							
64579819	5	16234								
5	005	98K1992	EA/1	4	4	0	0	CN	9032896040	EAR99
THERMAL SWITCH, NC, 125°C; Contact Configuration:SPST-NC; Sensor Terminals:Quick Connect; Sensor Housing:-; No. of Pins:2 Pin; Contact Rating:125VAC/15A, 250VAC/10A, 250VAC/16A; Product Range:T23 Series; Contact Current Max:10A							Mfr part#: T23A125BSR2-15 Mfr Name: MULTICOMP			
<u>Pick ID:</u>	<u>Pick Qty:</u>	<u>Date Code:</u>	<u>Lot Code:</u>							
64579900	1									
64579901	1									
64579917	2									
6	006	64K5758	EA/1	10	10	0	0	MX	8533408070	EAR99
RHEOSTAT, WIREWOUND, 50 OHM, 25W; Track Resistance:50ohm; Power Rating:25W; Product Range:RHS Series; Potentiometer Mounting:Panel; Adjustment Type:Screwdriver Slot; No. of Turns:1Turns; Resistance:50ohm; Resistance Max:50ohm							Mfr part#: RHS50RE Mfr Name: OHMITE			
<u>Pick ID:</u>	<u>Pick Qty:</u>	<u>Date Code:</u>	<u>Lot Code:</u>							
64579852	10	1637								

046
38
9-89

SP174-27

Certificate of Compliance:

The products included in the above shipment are processed in a system certified to ISO 9001:2008 and AS9120 for Quality Management and ISO14001 for Environmental Management. The system is also OHSAS 18001 compliant for Health and Safety Management. This shipment includes the products represented by the Newark SKU or manufacturer's part number as specified in the customer's requirements or in any contract agreed upon by the customer and seller in writing. Further information or certification on the performance, manufacturing process or conformance of a specific product may be available on request, or directly from the manufacturer. This certificate is valid only to the original customer and is not transferable. Contact customer service at 1-800-463-9275 if you have any questions.

Dan Hill
Newark President

THIS ORDER IS SUBJECT TO ALL TERMS AND CONDITIONS DISPLAYED AT:
<http://www.newark.com/terms-and-conditions>

XBY